

**Applicant: Eesley et al.**  
**Serial No.: 09/804,756**  
**Reply to Office action of 12/31/2003**

**REMARKS**

Independent claims 3 and 4 are in the application with claims 5-7 and 21-28 being ultimately dependent on claim 3.

The basis for rejecting claims 3 and 4 in the *FINAL REJECTION* was that the height and spacing of the fins "are a matter of design choice since the height and spacing of the fins depends on the environment the invention is being used in."

There is no suggestion in the prior art of how to optimize the fin height as a function of the thermal conductivity of the fin ( $k_f$ ), fin thickness ( $\delta_f$ ), linear density of the foam block ( $n$ ), porosity of the foam block ( $\phi$ ), the density ( $\rho$ ), thermal conductivity ( $k$ ), specific heat ( $c_p$ ), viscosity ( $\mu$ ) and velocity of the cooling fluid, as recited in claim 3.

Nor is there no suggestion in the prior art of the fin spacing as a function of:

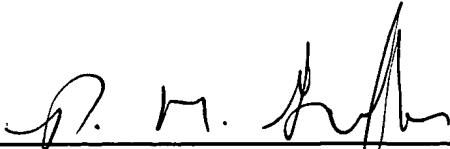
$\Phi\delta$  where  $\Phi$  is between 1 to 6 and  $\delta = 7.32 \sqrt{\frac{kc}{\rho c_p u_m}}$  where  $c$  is the selected fin length

$k$  is the thermal conductivity,  $\rho$  is density,  $c_p$  is the isobaric specific heat and  $u_m$  is the mean velocity of the cooling fluid.

It is respectfully submitted that the Application, as amended, is now presented in condition for allowance, which allowance is respectfully solicited.

Respectfully submitted

2/23/04  
Date

  
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**CERTIFICATE OF MAILING**

I hereby certify that this Amendment and Request for Continued Examination (RCE) for Serial No. 09/804,756 is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to **MAILSTOP: AF**, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on \_\_\_\_\_  
23-FEB- \_\_\_\_\_, 2004.

  
BRENDA D. CHAMBERS

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